

CLAIMS

What is claimed is:

1 1. A method comprising:
2 receiving, from a client computer, a point-to-point request message;
3 converting the point-to-point request message to a subject-based message;
4 multicasting the subject-based message;
5 receiving a response to the subject-based message;
6 converting the response to the subject-based message to a point-to-point response
7 message; and
8 transmitting the point-to-point response message back to the client computer.

1 2. The method of claim 1, wherein the converting includes assigning a reply subject
2 to the subject-based message.

1 3. The method of claim 1, wherein the point-to-point request message is based on
2 HyperText Transfer Protocol.

1 4. The method of claim 1, wherein the subject-based message denotes a group of
2 subscribers to receive the subject-based message.

1 5. The method of claim 4, wherein the group of subscribers to receive the subject-
2 based message can dynamically change.

1 6. The method of claim 1, wherein the subject-based message is independent of an
2 identity of a recipient.

1 7. The method of claim 1, wherein the subject-based message is independent of a
2 protocol used by a recipient of the subject-based message.

1 8. A method for processing a point-to-point request based on HyperText Transfer
2 Protocol (HTTP), the method comprising:
3 receiving, from a client computer, the point-to-point request;
4 converting the point-to-point request to a subject-based message;
5 multicasting the subject-based message to a number of application servers across
6 a network;
7 receiving a response to the subject-based message from one of the number of
8 application servers;
9 extracting content from the response;
10 generating a point-to-point response using the content from the response; and
11 sending the point-to-point response back to the client computer.

1 9. The method of claim 8, wherein the converting includes assigning a reply subject
2 to the subject-based message.

1 10. The method of claim 8, wherein the subject-based message denotes a group of
2 subscribers to receive the subject-based message.

1 11. The method of claim 10, wherein the group of subscribers to receive the subject-
2 based message can dynamically change.

1 12. The method of claim 10, wherein the subject-based message is independent of an
2 identity of a recipient.

1 13. The method of claim 10, wherein the subject-based message is independent of a
2 protocol used by a recipient of the subject-based message.

1 14. A machine-readable medium that provides instructions, which when executed by
2 a processor, cause said processor to perform operations comprising:
3 receiving, from a client computer, a point-to-point request message;
4 converting the point-to-point request message to a subject-based message;
5 multicasting the subject-based message;
6 receiving a response to the subject-based message;
7 converting the response to the subject-based message to a point-to-point response
8 message; and
9 transmitting the point-to-point response message back to the client computer.

1 15. The machine-readable medium of claim 14, wherein the converting includes
2 assigning a reply subject to the subject-based message.

1 16. The machine-readable medium of claim 14, wherein the point-to-point request
2 message is based on HyperText Transfer Protocol.

1 17. The machine-readable medium of claim 14, wherein the subject-based message
2 denotes a group of subscribers to receive the subject-based message.

1 18. The machine-readable medium of claim 17, wherein the group of subscribers to
2 receive the subject-based message can dynamically change.

1 19. The machine-readable medium of claim 14, wherein the subject-based message is
2 independent of an identity of a recipient.

1 20. The machine-readable medium of claim 14, wherein the subject-based message is
2 independent of a protocol used by a recipient of the subject-based message.

1 21. A machine-readable medium that provides instructions for processing a point-to-
2 point request based on HyperText Transfer Protocol (HTTP, which when executed by a
3 processor, cause said processor to perform operations comprising:

4 receiving, from a client computer, the point-to-point request;

5 converting the point-to-point request to a subject-based message;

6 multicasting the subject-based message to a number of application servers across
7 a network;

8 receiving a response to the subject-based message from one of the number of

9 application servers;

10 extracting content from the response;

11 generating a point-to-point response using the content from the response; and

12 sending the point-to-point response back to the client computer.

1 22. The machine-readable medium of claim 21, wherein the converting includes
2 assigning a reply subject to the subject-based message.

1 23. The machine-readable medium of claim 21, wherein the subject-based message
2 denotes a group of subscribers to receive the subject-based message.

1 24. The machine-readable medium of claim 23, wherein the group of subscribers to
2 receive the subject-based message can dynamically change.

1 25. The machine-readable medium of claim 21, wherein the subject-based message is
2 independent of an identity of a recipient.

1 26. The machine-readable medium of claim 21, wherein the subject-based message is
2 independent of a protocol used by a recipient of the subject-based message.

1 27. An application server coupled to a network, the application server comprising:
2 a database having data;
3 a processor coupled to the database, the processor to process subject-based
4 messages received from a server, the subject-based messages to include requests for
5 data content wherein the subject-based messages are generated from point-to-point
6 messages received from a client computer, the processing including:
7 listening for a subject-based request message being received from the
8 network;
9 extracting portions of the data in the database based on the request in the
10 subject-based message;
11 generating a subject-based response message that includes the portions of
12 the data extracted from the database; and
13 transmitting the subject-based response message back to the server.

1 28. The application server of claim 27, wherein the point-to-point request message is
2 based on HyperText Transfer Protocol.

1 29. The application server of claim 27, wherein the subject-based response message
2 includes a reply subject assigned by the server.

1 30. The application server of claim 27, wherein the subject-based message is
2 independent of an identity of a recipient.

1 31. The application server of claim 27, wherein the subject-based message is
2 independent of a protocol used by a recipient of the subject-based message.

1 32. A system comprising:
2 a server coupled to a network, the server to receive a point-to-point request
3 message based on HyperText Transfer Protocol (HTTP) from a web browser and to
4 process the point-to-point request message, the processing of the point-to-point request
5 message including:
6 converting the point-to-point request message to a subject-based message;
7 multicasting the subject-based message;
8 receiving a response to the subject-based message;
9 converting the subject-based message to a point-to-point response
10 message; and
11 transmitting the point-to-point response message back to the web browser;
12 and
13 a number of application servers coupled to the network, each of the number of
14 application servers comprising:
15 a database having data;

16 a processor coupled to the database, the processor to process the subject-
17 based message received from the server, the processing of the subject-based message
18 including:

19 listening for a subject-based request message being received from
20 the network;

21 extracting portions of the data in the database based on the request
22 in the subject-based message;

23 generating a subject-based response message that includes the
24 portions of the data extracted from the database; and

25 transmitting the subject-based response message back to the server.

1 33. The system of claim 32, further comprising a distributed queue, the distributed
2 queue to receive the subject-based message from the server, wherein one of the number
3 of application servers schedules which of the application servers are to process the
4 subject-based message received in the distributed queue.

1 34. The system of claim 32, wherein the number of application servers can
2 dynamically change.

1 35. The system of claim 32, wherein the subject-based message is independent of a
2 protocol used by the number of application servers.